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**No. 1C-c23  $\text{PbTiO}_3$ – $\text{PbZrO}_3$ – $\text{BiFeO}_3$** 

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1b Phase diagram: Fig. 1C-c23-001.  
Transition temperature: Fig. 1C-c23-002.

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3a Lattice parameter: see 63Ike,  
68Iwa

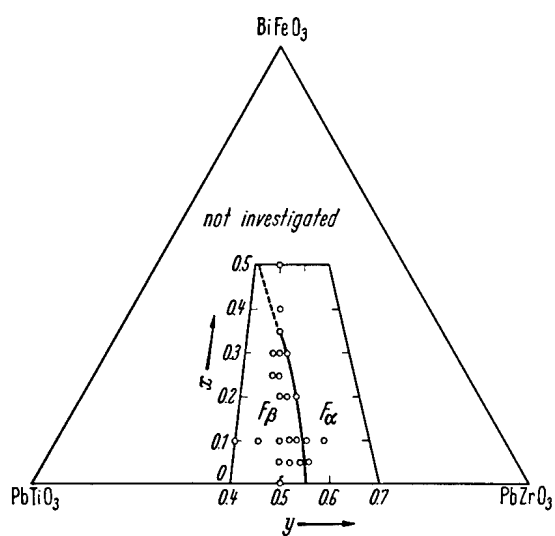
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5a Dielectric constant: Fig. 1C-c23-003.

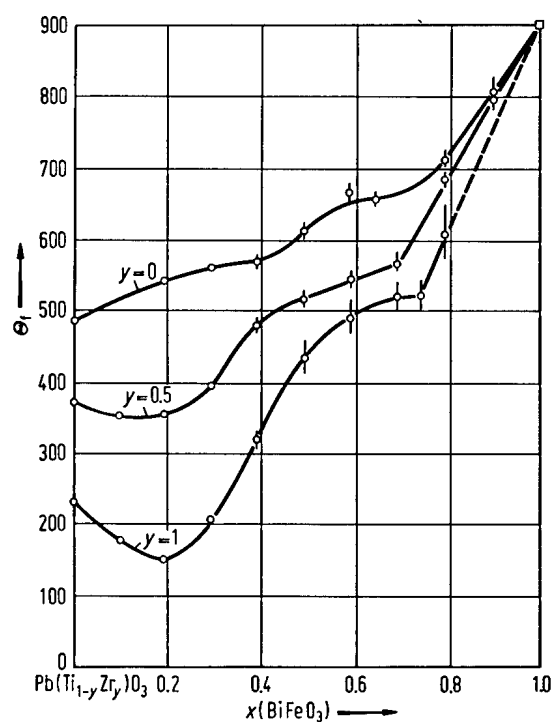
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13c Mössbauer effect: Fig. 1C-c23-004.

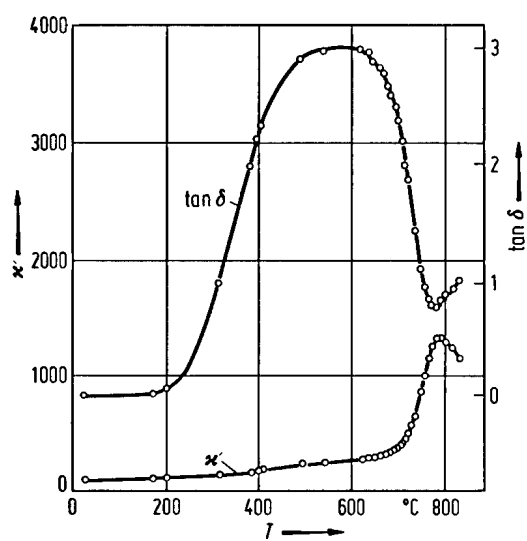
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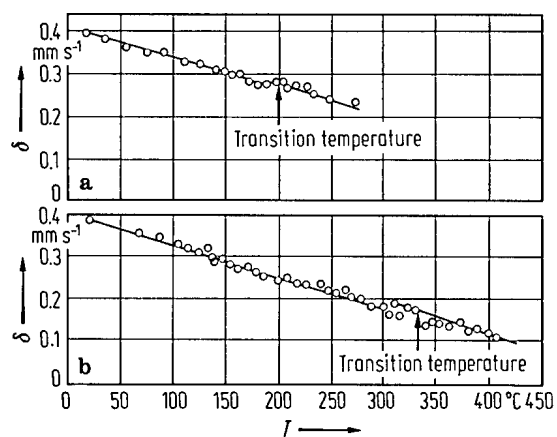
**Fig. 1C-c23-001.**  $(1-x)\text{Pb}(\text{Ti}_{1-y}\text{Zr}_y)\text{O}_3 \cdot x \text{BiFeO}_3$ . Phase diagram [63Ike].



**Fig. 1C-c23-002.**  $(1-x)\text{Pb}(\text{Ti}_{1-y}\text{Zr}_y)\text{O}_3 \cdot x \text{BiFeO}_3$ .  $\Theta_f$  vs.  $x$  [68Smi]. Parameter:  $y$ .  $\Theta$  in  $^{\circ}\text{C}$ .



**Fig. 1C-c23-003.** 0.1  $\text{Pb}(\text{Ti}_{0.5}\text{Zr}_{0.5})\text{O}_3 \cdot 0.9 \text{ BiFeO}_3$  (ceramics).  $\kappa'$ ,  $\tan \delta$  vs.  $T$  [68Smi].  $f = 530 \text{ MHz}$ .



**Fig. 1C-c23-004.**  $0.95 \text{ PbZrO}_3 \cdot 0.05 \text{ BiFeO}_3$  (a) and  $0.95 \text{ Pb}(\text{Ti}_{0.20}\text{Zr}_{0.80})\text{O}_3 \cdot 0.05 \text{ BiFeO}_3$  (b).  $\delta$  vs.  $T$  [71Can].  $\delta$ : isomer shift.

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